



ENVIRONMENTAL MANAGEMENT PROGRAM REFUSE DISPOSAL DIVISION



Greens Processing

Process Map Number(s): GP-1.0

Background / Purpose: RDD uses approximately 649,000 gallons of diesel annually in the heavy equipment used to bury refuse, excavate the landfill cells, and maintain the Miramar Landfill. This EMP is designed to maximize fuel conservation efforts and concurrently reduce emissions while increasing efficiency of the heavy equipment operation.

Objective: Fuel Use Reduction

Related Significant Aspects: Fuel Consumption, Exhaust Emissions (Heavy Equipment, Stationary Equipment).

Target: 10% overall fuel use reduction.

Target Completion Date(s): April 1, 2002

Action Plan: Develop and implement SOPs for: heavy equipment warm-up times (20 minutes), periodic radiator “blow out”, shut down and restart procedures during break and lunch periods, and general equipment condition. Investigate new technology application for existing stationary equipment.

Responsible Person(s): Disposal Site Supervisor (Greens), Greens crew

Resources Required: Tailgate sessions, supervisory guidance and monitoring, written SOPs, equipment lease contractor support.

Environmental Performance Indicator(s): Equipment Fuel Logs, Equipment Division Annual Fuel Use Summary.

Comments (including other expected benefits or cost savings): Hourly rate (per piece of equipment) cost savings, diesel emissions reduction, equipment life extended through cooler running engines.

Baseline Data: Baseline data was derived through fuel use logs (1999/2000), a 3-4 hour average idle time per piece of equipment per day, the Caterpillar Performance Manual (Oct. 2000) for fuel consumption figures, and 260 days at 100% equipment use. A 10% reduction in fuel based on idle times equates to saving of 64,882 gallons of diesel, 4,569 operating hours, and \$575,684 in rate savings. In addition to 730 tons of CO², 3.3 tons of CO, 6.9 tons of NO_x, 0.9 tons of SO_x, and 0.8 tons of PM₁₀.

Approved by: Steve Fontana
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Field Operations Program Manager
Environmental Management Representative

Environmental Performance Indicator (EPI) Schedule					
Step	Action Items	Responsibilities	Role	Schedule	Resources Required
1	Develop SOPs	Field Ops.P.M.	Lead	7/15/01	
2	Tailgate Training on SOPs	D.S.S.	Lead	7/30/01	
3	Comply with SOPs	D.S.S. Equip Operators	Lead Support	7/30/01	
4	Record Operating Hours	Service Writers	Lead	daily	
5	Reconcile Operating hours for payment	Field Ops.P.M.	Lead	Bi-weekly	